


REVISION HISTORY					
DATE	REV	DESCRIPTION	AUTHOR	CHECKED BY	APPROVED
08/23/16	PR2	FOR -2, -3 AND -10: HOLE PATTERNS CHANGED; FOR -4 AND -5, REMOVED HOLES; CORRECTED -8 INLET DOUBLER TO -10; -10 CHANGED SWAPPED PRIMER AND ANODIZE FOR FINISH; CHANGED -3 FROM KYDEX 0.090 TO AL 6061 0.060.	JT	LS	JT
03/21/17	A	REMOVED -8. CHANGED LENGTH OF -7 FROM 13.038 TO 27.50 AND WIDTH WAS 20.17 NOW 18.17; ADDED NOTES 1 AND 2; CHANGED THE FINISH AND PAINT ON -3 AND -10; ADDED -11 AND -12 AS ALTERNATES; ON -2 ADDED SECOND SHEET WITH DIMENSIONS, CHANGED DIMENSIONS WAS 4.073 DIA. NOW 4.07 AND WAS 3.947 DIA. NOW 3.910; ON -10 CHANGED RADIUS FROM 0.750 TO 0.375; ADDED MATERIAL INFO FOR -6, -7, -11, -12.	JT	LS	JT
4/6/17	B	MATERIAL THICKNESS WAS 0.060" ON -3 AND -10, ADDED KYDEX DEFINITION TO MATERIAL -2.	EW	LS	JT
6/7/17	C	SHT 4 ADDED FINISH AND COLOR SPECIFICATION.	EW	LS	JT
6/21/17	D	MOVED REV BLOCK TO SHT 1; -2 12X HOLES WERE .201 DIA; 1.080 AND 1.349 WERE 1.034 AND 1.395 ON -10, -11 MATERIAL WAS 0.125" THK K-FLEX INSUL-SHEET PSA CLOSED CELL FOAM SHEET, FLAME RESISTANT PER ASTM E84 CLASS A; -12 MATERIAL WAS 0.250" THK K-FLEX INSUL-SHEET PSA CLOSED CELL FOAM SHEET, FLAME RESISTANT PER ASTM E84 CLASS A (INSUL SHEET WAS ASSIGNED A PN FROM A CONTROL DWG FOR PROCUREMENT FLEXIBILITY); REV B & C AUTHOR WAS ETW, FILLED IN CHECKED BY AND APPROVED INITIALS REVS A TO C.	EW	LS	JT
2/22/18	E	SHT. 5 ADDED REF MATERIAL CALLOUT.	EW	LS	JT
4/19/19	F	-9 ASSY: ADDED NOTE 3; -6 DUCTING CHANGED TO 18" LENGTH TO BETTER FIT INSTALL; SHT 2,4,10: CHANGED PAINT TO MIL-PRF-85285, TYPE 1, CLASS H, COLOR 37038. W/ GLOSS RATING, OLD PAINT AS REFERENCE	ZA	LS	ZA
10/9/19	G	-9 ASSY: SWITCHED ALTERNATE INSULATION WITH PRIMARY; -7, -11, -12 REDUCED LENGTH, WAS 18.17 NOW 16.00 TO FIT TUBE LENGTH	ZA	LS	ZA
10/31/19	H	SHT 2 NOTE CHANGED WET TAPE TEST TO "ONCE PER LOT" WAS "ONCE PER MONTH"	ZA	LS	ZA
6/12/20	J	-3: FIXED INCORRECT HOLE DIMENSIONS, PREVIOUSLY SHOWED MIRRORING THAT DID NOT MATCH PHYSICAL PART	ZA	LS	ZA
07/01/22	K	FOR -11 INSULATION (ALTERNATE CONFIG) WIDTH WAS 1.0" IS NOW 1.5"	AD	AD	MH

Paravion® Technology Inc.		TITLE EVAPORATOR INLET		DRAWING NUMBER 505AC-5130 Rev K	
DIMENSIONS IN INCHES TOLERANCES EXCEPT WHERE NOTED: .X = ±.1 .XX = ±.06 .XXX = ±.010 ANGLES ± 1°		DRAWN BY KEW	CHK'D BY LS	APRVD. BY JT	DATE 3/4/2016
THREADS: INTERNAL CLASS 2B EXTERNAL CLASS 2A				DO NOT SCALE DRAWING	
<small>~CONFIDENTIAL INFORMATION~ THE INFORMATION AND DATA CONTAINED HEREIN IS PROPRIETARY AND IS SUBMITTED IN CONFIDENCE; AND SHALL NOT BE DISCLOSED, USED OR DUPLICATED FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF PARAVION TECHNOLOGY, INC.</small>		3RD ANGLE PROJECTION		© 2020 PARAVION TECH. INC. PARAVION IS A TRADEMARK OF PARAVION TECHNOLOGY INC.	
PROTO		REV K		ECO K	
		SHEET 1 OF 11			

MATERIAL: KYDEX 100 SHEET P-1 TEXTURE, COLOR: BLACK 52000

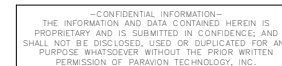


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1. PREPARE PART FOR PRIMER:
 - a. USE EXTRA CAUTION AND WEAR GLOVES WHILE PREPARING PARTS FOR PRIMER.
 - b. THOROUGHLY CLEAN ANODIZED PART USING ISOPROPYL ALCOHOL.
 - c. USE COMPRESSED AIR FREE OF WATER AND CONTAMINANTS.
2. PAINT ADHESION TEST:

FOR BOTH DRY AND WET TESTS, USE A TAPE WITH AN ADHESION TO STEEL OF 70 OZ/IN MINIMUM.

 - a. DRY TAPE TEST DONE ONCE EVERY LOT.
 - i. PLACE THE TAPE ON THE PRIMERED SURFACE AND AFFIX WITH FIRM PRESSURE.
 - ii. REMOVE THE TAPE WITH AN ABRUPT MOTION (JERK).
 - iii. LOSS OF ADHESION TO THE BASE MATERIAL CONSTITUTES A FAILURE.
 - b. WET TAPE TEST DONE ONCE PER LOT.
 - i. SOAK THE PART WITH DISTILLED OR DEIONIZED WATER FOR 24 HRS.
(ALTERNATIVELY: AN ANODIZED COUPON WITH AN AREA ABOUT 4 INCHES X 4 INCHES MAY BE USED)
 - ii. DRY THE SURFACE WITH A CLEAN CLOTH.
 - iii. REPEAT STEPS i THRU iii OF DRY TAPE TEST.

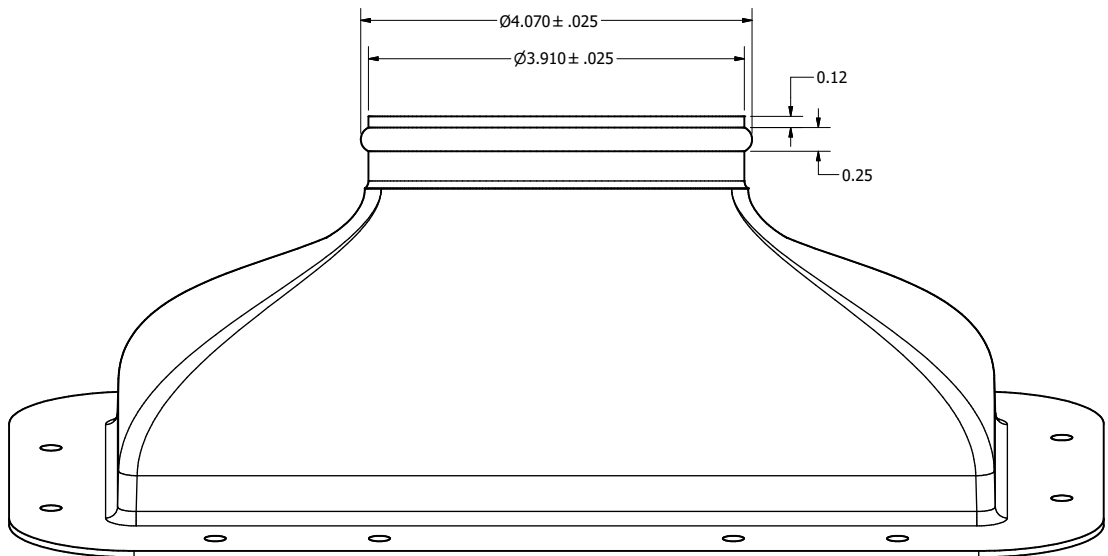
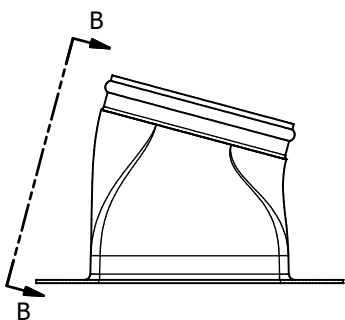


NOTE: THE DRAWING IN COMBINATION WITH THE MODEL 505AC-5130-2 PROVIDE COMPLETE DEFINITION OF THE PART. THE MODEL DEFINES THE BASE GEOMETRY OF THE PART WITHIN $\pm 0.040"$. THE DRAWING IS THE DESIGN MASTER. ANY FEATURE DEFINED ON THE DRAWING SUPERCEDES ALL MODEL DEFINITION.

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-2 AFT CABIN INLET (CONT.)



SECTION B-B

Paravion® Technology Inc.		TITLE EVAPORATOR INLET		DRAWING NUMBER 505AC-5130 Rev K	
DIMENSIONS IN INCHES TOLERANCES EXCEPT WHERE NOTED: .X = ±.1 .XX = ±.06 .XXX = ±.010 ANGLES ± 1°		DRAWN BY KEW	CHK'D BY LS	APRVD. BY JT	DATE 3/4/2016
THREADS: INTERNAL CLASS 2B EXTERNAL CLASS 2A		DO NOT SCALE DRAWING		REV K	ECO
3RD ANGLE PROJECTION		© 2020 PARAVION TECH. INC. PARAVION IS A TRADEMARK OF PARAVION TECHNOLOGY INC.		SHEET 3 OF 11	

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PROTO

-3 BEZAL

MATERIAL: 0.063" THK 6061-T6 SHEET PER QQ-A-250/11 AMS 4027, 4026, 4025

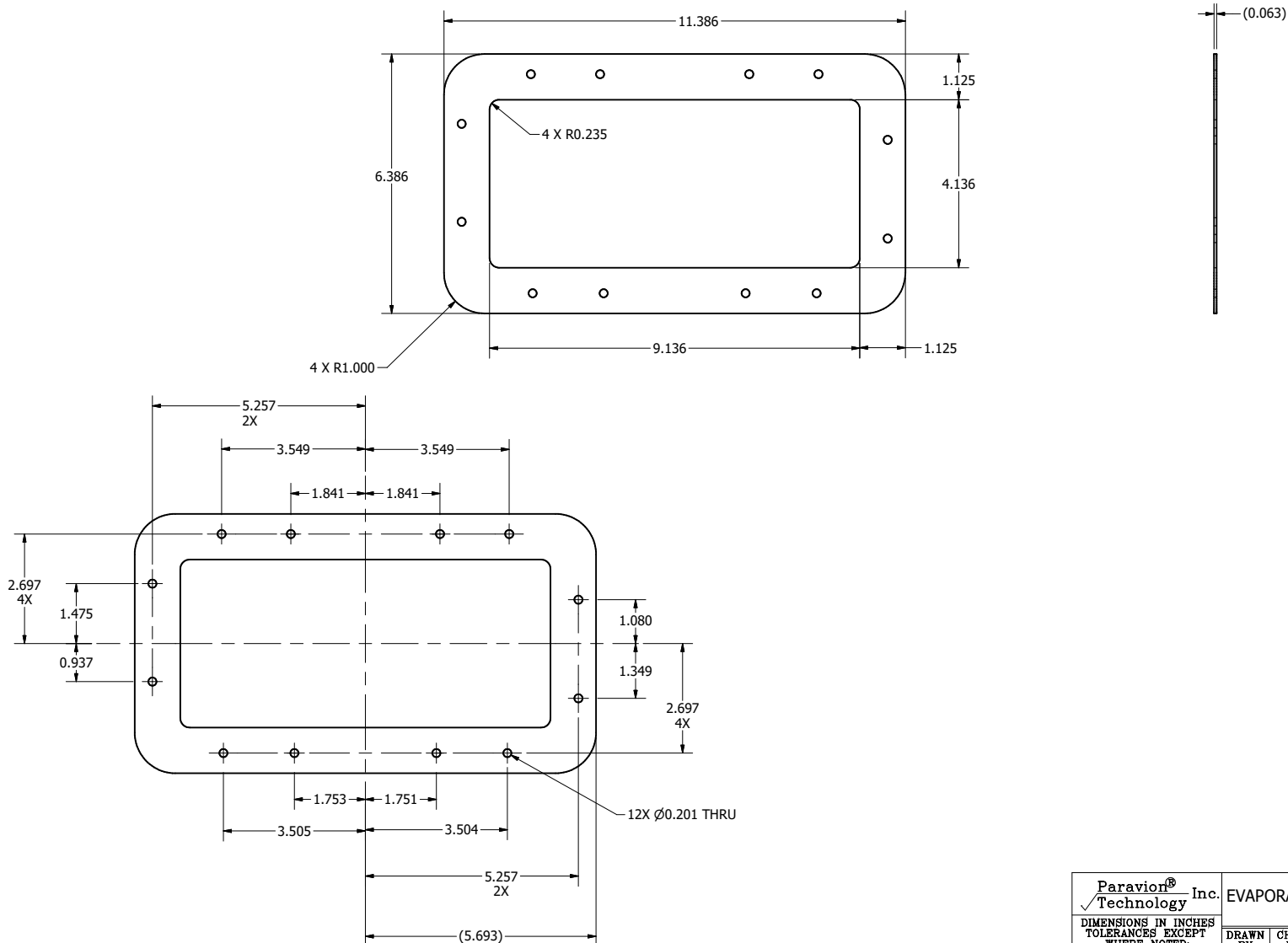
FINISH: ANODIZE PER MIL-A-8625 TYP II, CLASS 1, EXCEPT OMIT SEALING IN SECTION 3.8.1.2.

PAINT: PRIMER PER MIL-PRF-23377J TYPE I, CLASS N.

PAINT ADHESION TEST: 

FINISH: MIL-PRF-85285, TYPE 1, CLASS H, COLOR 37038. GLOSS: 5 UNITS MAXIMUM AT 60° AND 9 UNITS MAXIMUM AT 20°.

(ALT: BTHI CONSUMABLES LIST #C265)



BREAK ALL SHARP EDGES

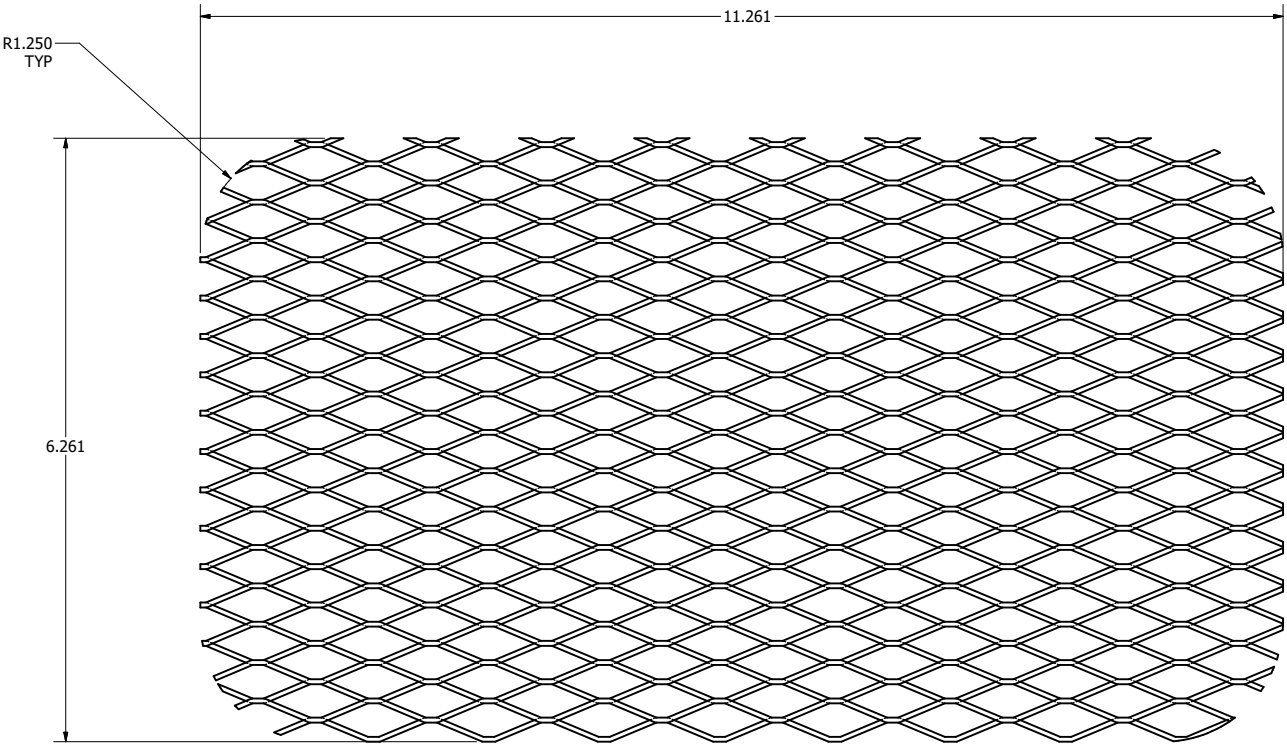
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-4 SCREEN

MATERIAL: MADE FROM ES04070-2 SCREEN (REF. 3003 ALUMINUM)
FINISH: ANODIZE PER MIL-A-8625 TYPE II, CLASS 2
COLOR: BLACK



LOCATION OF FASTENERS
SCREEN SECTIONS MUST BE REMOVE TO CLEAR FASTENERS

BREAK ALL SHARP EDGES

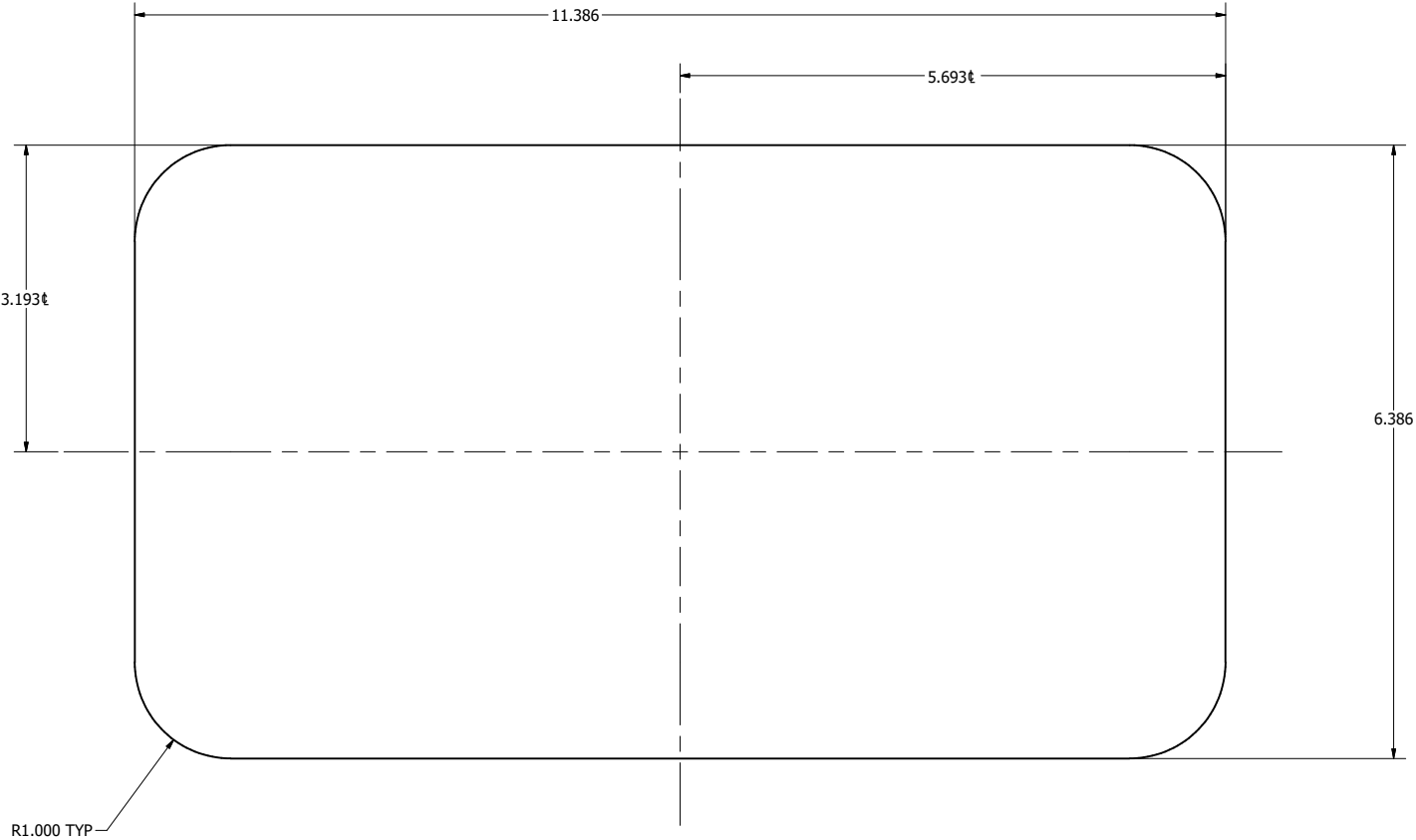
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3RD ANGLE PROJECTION		© 2020 PARAVION TECH. INC. PARAVION IS A TRADEMARK OF PARAVION TECHNOLOGY INC.		SHEET 5 OF 11	

-5 FILTER

MATERIAL: MADE FROM ES04090-1 FILTER



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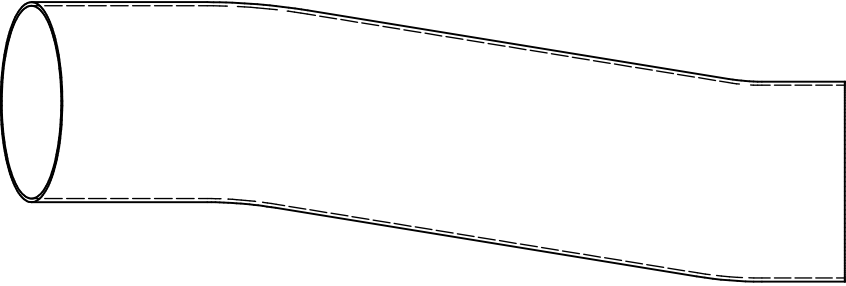
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		DO NOT SCALE DRAWING			REV K
THREADS: INTERNAL CLASS 2B EXTERNAL CLASS 2A		3RD ANGLE PROJECTION		SHEET 6 OF 11	
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-6 DUCT

MATERIAL:
4" CAT DUCT, AERODUCT AIR DUCTING RATED FROM -65°F to 550°F.
A LOW PRESSURE WIRE-SUPPORTED DUCTING MANUFACTURED WITH
FIBERGLASS FABRICS IMPREGNATED WITH NEOPRENE OR SILICONE
RUBBER COMPOUND, DEVELOPED FOR FLAME RESISTANCE.

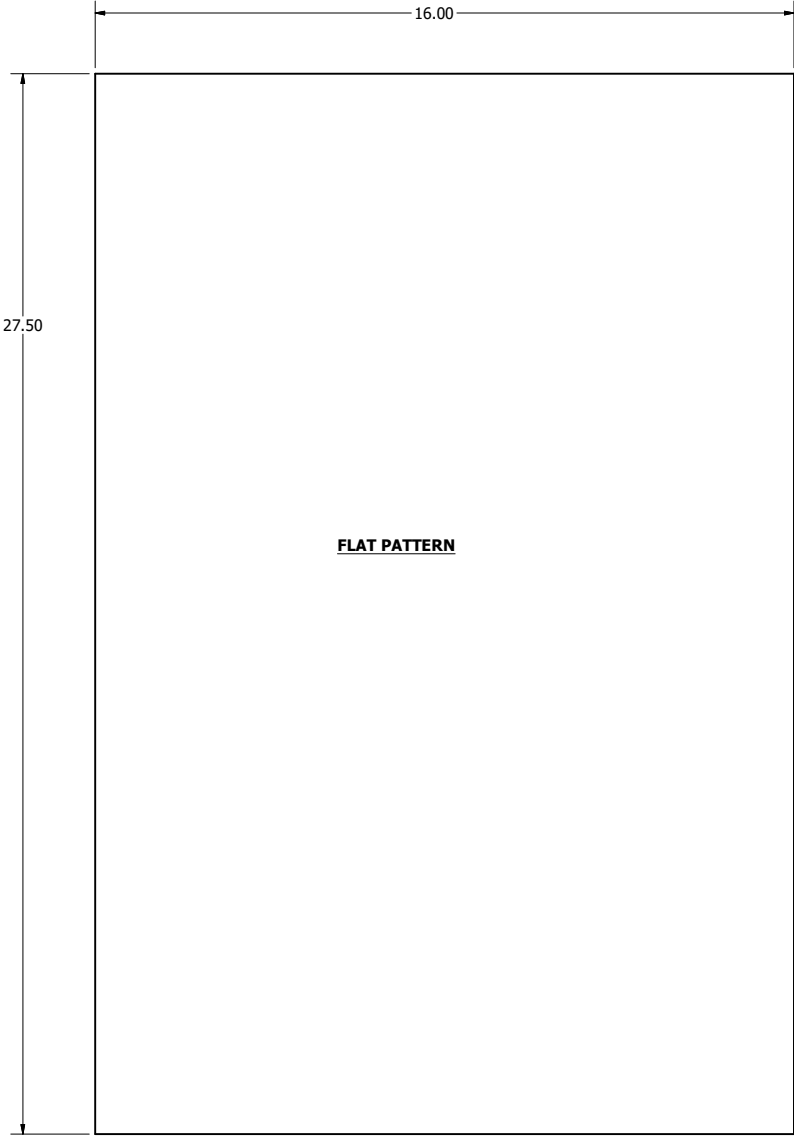
NOTE:
1. CUT LENGTH: 18" IN RELAXED CONDITION.



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		THREADS: INTERNAL CLASS 2B EXTERNAL CLASS 2A	3RD ANGLE PROJECTION	© 2020 PARAVION TECH. INC. PARAVION IS A TRADEMARK OF PARAVION TECHNOLOGY INC.	7 OF 11

-7 INSULATION

MATERIAL:
0.125" THK K-FLEX INSUL-SHEET PSA
CLOSED CELL FOAM SHEET, FLAME RESISTANT PER ASTM E84 CLASS A.



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				SHEET 8 OF 11	

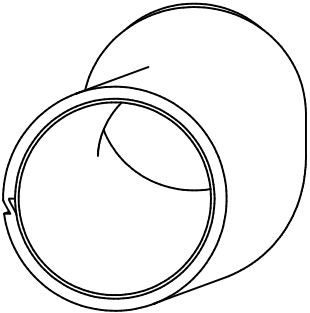
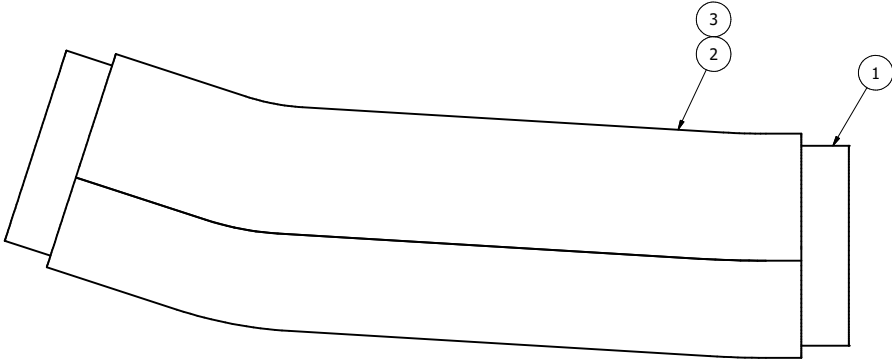
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PROTO

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	505AC-5130-6	INLET DUCT
2	1	505AC-5130-11	INSULATION SEAM
3	1	505AC-5130-12	INSULATION (ALT. 505AC-5130-7 W/OUT -11)

-9 INSULATED DUCT

- NOTE:
- 1. INSTALL INSULATION ON TO DUCT WHILE DUCT IS IN THE RELAXED STATE.
 - 2. FOR PRIMARY INSULATION: INSTALL -11 OVER INSULATION SEAM.
 - 3. REMOVE 2" OF INTERNAL WIRE ON EACH END OF DUCT.



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SHEET 9 OF 11		REV K		ECO	

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PROTO

-10 INLET DOUBLER 

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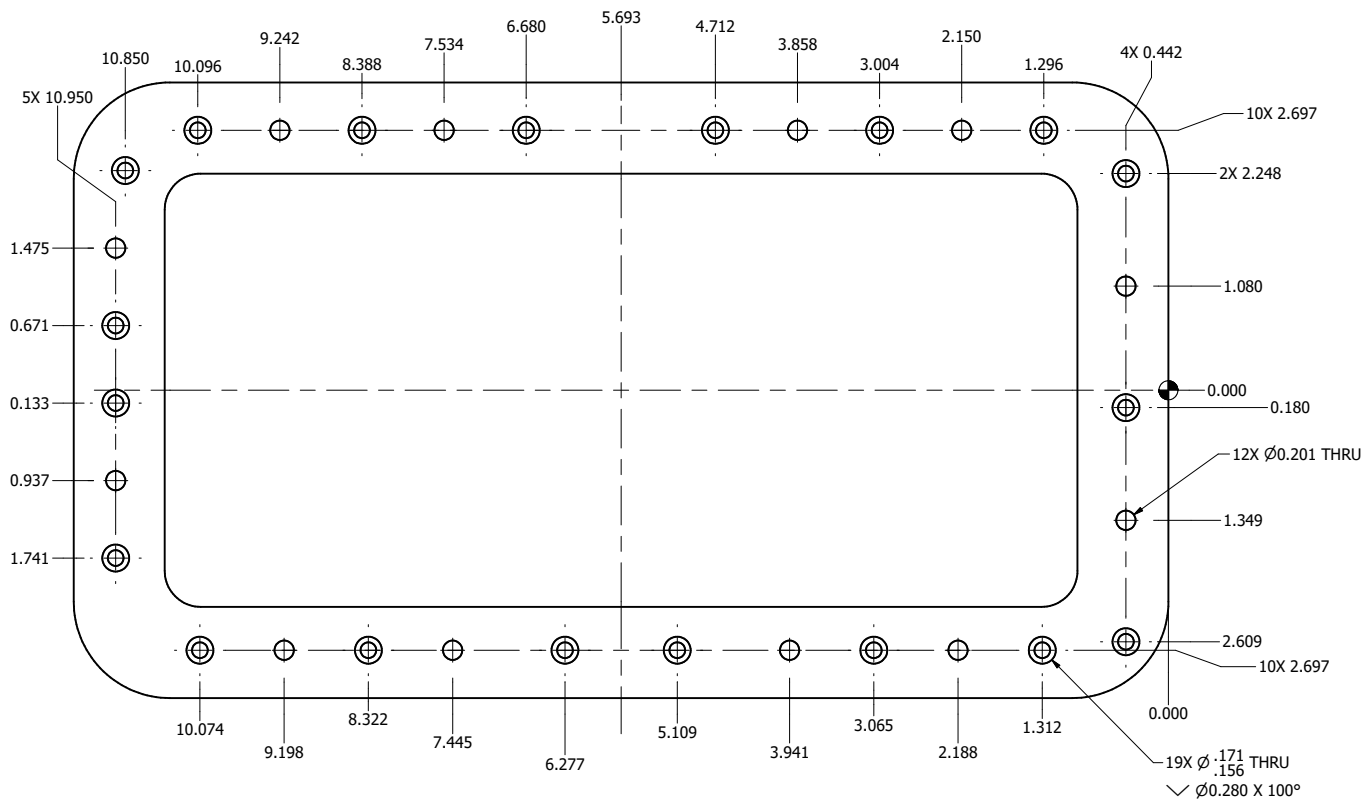
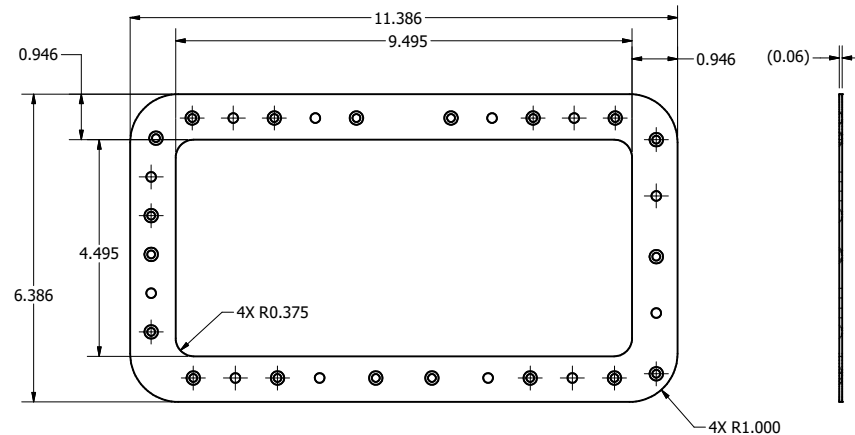
FINISH: ANODIZE PER MIL-A-8625 TYP II, CLASS 1, EXCEPT OMIT SEALING IN SECTION 3.8.1.2.

PAINT: PRIMER PER MIL-PRF-23377J TYPE I, CLASS N.

PAINT ADHESION TEST: 

FINISH: MIL-PRF-85285, TYPE 1, CLASS H, COLOR 37038. GLOSS: 5 UNITS MAXIMUM AT 60° AND 9 UNITS MAXIMUM AT 20°.

(ALT: BTHI CONSUMABLES LIST #C265)

**BREAK ALL SHARP EDGES**

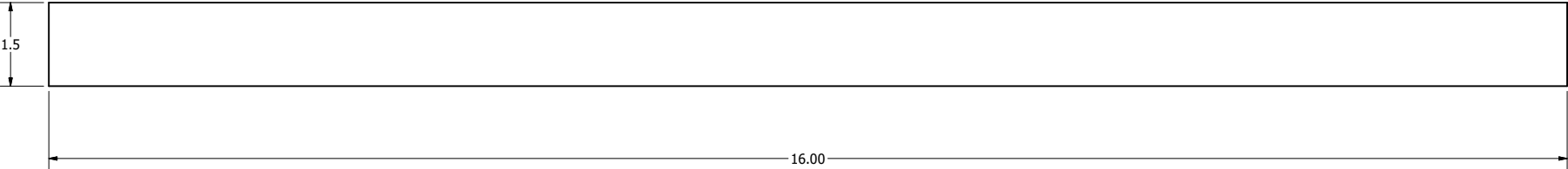
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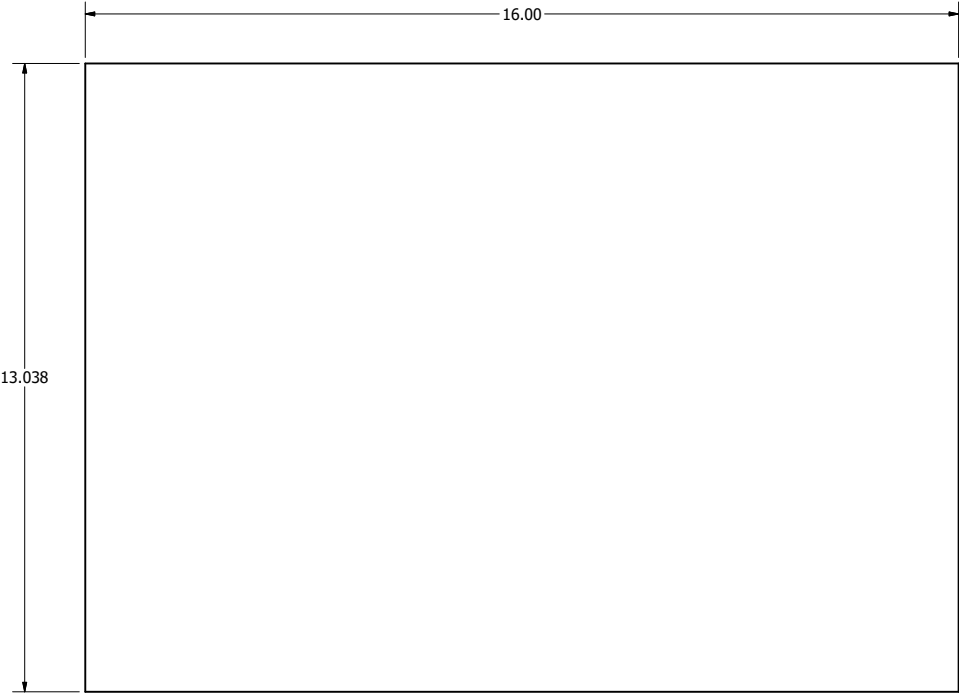
-11 INSULATION (ALTERNATE CONFIG)

MATERIAL: ES00135-1



-12 INSULATION (ALTERNATE CONFIG)

MATERIAL: ES00135-2



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				REV K	ECO
				SHEET 11 OF 11	